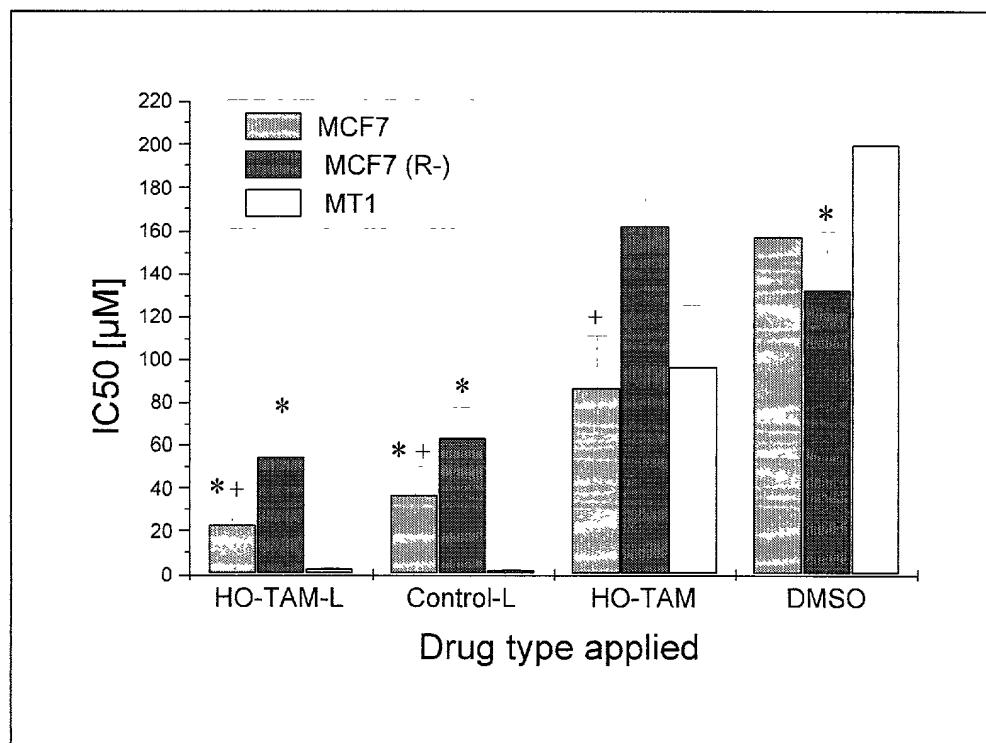


Abstract

The invention relates to a pharmaceutical means on the basis of a combination of anti-oestrogen, alkylphospholipid and phospholipids, its manufacture and use. Fields of application of the invention are medicine and the pharmaceutical industry. The essential feature of the invention is the combination of anti-neoplastically effective alkylphospholipid and an anti-oestrogen in a lipid vesicle. A preferred example is octadecyl-(N,N-diemthylpiperidin-4-yl)-phosphat (OPP), Tamoxifen (Tam) in phosphocholine (PC) vesicles.

Fig. 1 Cytotoxic effect of Tamoxifen liposomes on breast cancer cells



1×10^5 cells/ml were incubated with the corresponding liposomes (L), HO-TAM/DMSO and with DMSO for 3 days. The living cells were determined with the MTT assay. The concentration of active agent necessary to inhibit the cell growth by 50% (IC_{50}) is stated.

*: Significantly different from HO-TAM; + : significantly different from MCF7(R-).